

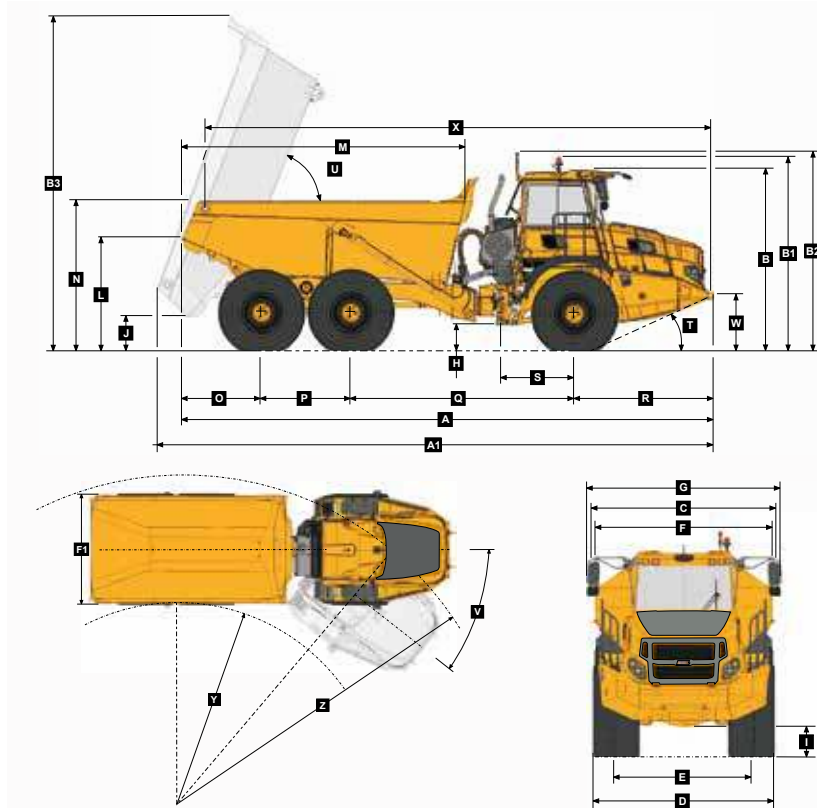
Technical Data - B25E

<div>ENGINE</div> <div>Manufacturer Mercedes Benz</div> <div>Model OM936LA</div> <div>Configuration Inline 6, turbocharged and intercooled.</div> <div>Gross Power 210 kW (281 hp) @ 2,200 rpm</div> <div>Net Power 201 kW (269 hp) @ 2,200 rpm</div> <div>Gross Torque 1,150 Nm (848 lbf) @ 1,200 -1,600 rpm</div> <div>Displacement 7.7 liters (469 cu.in)</div> <div>Auxiliary Brake Engine Valve Brake</div> <div>Fuel Tank Capacity 302 liters (79.78 US gal)</div> <div>AdBlue® Tank Capacity 31 l (8.2 US gal)</div> <div>Certification OM936LA meets EU Stage IV / EPA Tier 4 Final emissions regulations.</div>	<div>Control Type Electronic</div> <div>Torque Control Hydrodynamic with lock-up in all gears.</div> <div>TRANSFER CASE</div> <div>Manufacturer Kessler</div> <div>Series W1400</div> <div>Layout Remote mounted</div> <div>Gear Layout Three in-line helical gears</div> <div>Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.</div> <div>AXLES</div> <div>Manufacturer Bell</div> <div>Model 15T</div> <div>Differential High input limited slip differential with spiral bevel gears</div> <div>Final Drive Outboard heavy duty planetary on all axles.</div> <div>BRAKING SYSTEM</div> <div>Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).</div> <div>Maximum brake force: 184 kN (41,400 lbf)</div> <div>Park & Emergency Spring applied, air released driveline mounted disc.</div> <div>Maximum brake force: 195 kN (43,900 lbf)</div>	<div>Auxiliary Brake Automatic engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependent.</div> <div>Total Retardation Power Continuous: 318 kW (426 hp) Maximum: 588 kW (788 hp)</div> <div>WHEELS</div> <div>Type Radial Earthmover</div> <div>Tire 23.5 R 25</div> <div>FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</div> <div>REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks.</div> <div>HYDRAULIC SYSTEM Full load sensing system serving the prioritized steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.</div> <div>Pump Type Variable displacement load sensing piston</div> <div>Flow 165 l/min (44 gal/min)</div> <div>Pressure 28 MPa (4,061 psi)</div> <div>Filter 5 microns</div> <div>STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump.</div> <div>Lock to lock turns 4.1</div> <div>Steering Angle 45°</div>	<div>DUMPING SYSTEM Two double-acting, single stage, dump cylinders.</div> <div>Raise Time 14.5 s</div> <div>Lowering Time 7.5 s</div> <div>Tipping Angle 70° standard, or any lower angle programmable</div> <div>PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.</div> <div>System Pressure 810 kPa (117 psi)</div> <div>ELECTRICAL SYSTEM</div> <div>Voltage 24 V</div> <div>Battery Type Two AGM (Absorption Glass Mat) type.</div> <div>Battery Capacity 2 X 75 Ah</div> <div>Alternator Rating 28V 80A</div> <div>VEHICLE SPEEDS</div> <table><tr><td>1st</td><td>7 km/h</td><td>4 mph</td></tr><tr><td>2nd</td><td>15 km/h</td><td>9 mph</td></tr><tr><td>3rd</td><td>23 km/h</td><td>14 mph</td></tr><tr><td>4th</td><td>35 km/h</td><td>22 mph</td></tr><tr><td>5th</td><td>47 km/h</td><td>29 mph</td></tr><tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>R</td><td>7 km/h</td><td>4 mph</td></tr></table> <div>CAB ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.</div>	1st	7 km/h	4 mph	2nd	15 km/h	9 mph	3rd	23 km/h	14 mph	4th	35 km/h	22 mph	5th	47 km/h	29 mph	6th	50 km/h	31 mph	R	7 km/h	4 mph
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R	7 km/h	4 mph																						

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE				LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN (No sinkage)		LADEN (15% sinkage)		BODY	m³ (yd³)		kg (lb)
Front	10,085 (22,230)	23.5 R 25	kPa (Psi)	23.5 R 25	kPa (Psi)	Struck Capacity	12 (15.7)	Bin liner	1,050 (2,314)
Middle	4,805 (10,600)	Front	246 (36)	Front	230 (33)	SAE 2:1 Capacity	15 (19.5)	Tailgate	769 (1,695)
Rear	4,770 (10,520)	Middle	337 (49)	Middle	283 (41)	SAE 1:1 Capacity	18 (23.5)	Extra wheelset	565 (1,246)
Total	19,660 (43,350)	Rear	337 (49)	Rear	283 (41)	SAE 2:1 Capacity with Tailgate	15.5 (20.3)		
LADEN									
Front	12,825 (28,274)								
Middle	15,435 (34,028)					Rated Payload	24,000 kg		
Rear	15,400 (33,951)						(52,911 lbs)		
Total	43,660 (96,253)								

Dimensions

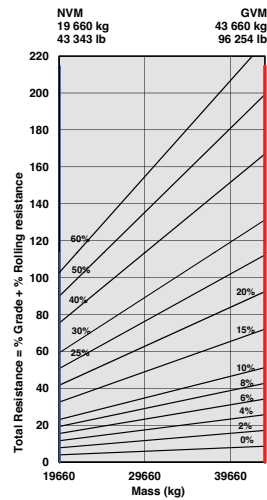


Machine Dimensions

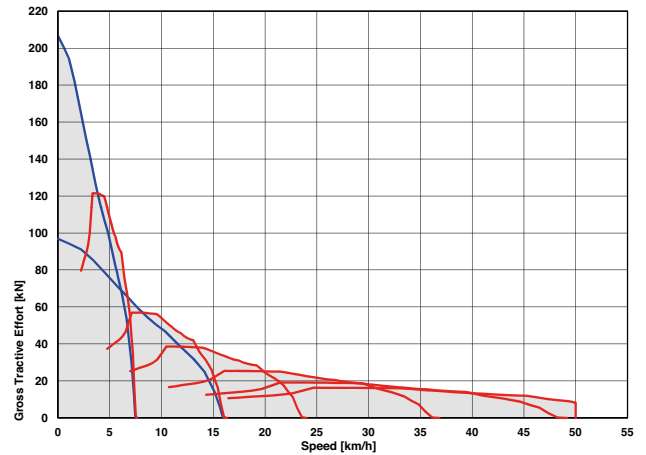
A	Length - Transport Position	9,953 mm (32 ft. 7 in.)
A1	Length - Bin Fully Tipped	10,311 mm (33 ft. 9 in.)
B	Height - Transport Position	3,426 mm (11 ft. 2 in.)
B1	Height - Rotating Beacon	3,661 mm (12 ft.)
B2	Height - Load Light	3,747 mm (12 ft. 3 in.)
B3	Bin Height - Fully Tipped	6,255 mm (20 ft. 6 in.)
C	Width over Mudguards	2,985 mm (9 ft. 9 in.)
D	Width over Tires - 23.5R25	2,940 mm (9 ft. 7 in.)
E	Tire Track Width - 23.5R25	2,356 mm (7 ft. 8 in.)
F	Width over Bin	2,700 mm (8 ft. 10 in.)
F1	Width over Tailgate	2,998 mm (9 ft. 10 in.)
G	Width over Mirrors - Operating Position	3,260 mm (10 ft. 8 in.)
H	Ground Clearance - Artic	537 mm (21.14 in.)
I	Ground Clearance - Front Axle	488 mm (19.21 in.)
J	Ground Clearance - Bin Fully Tipped	670 mm (26.38 in.)
K	Ground Clearance - Under Run Bar	N/A
L	Bin Lip Height - Transport Position	2,176 mm (7 ft. 1 in.)
M	Bin Length	5,272 mm (17 ft. 3 in.)
N	Load over Height	2,763 mm (9 ft.)
O	Rear Axle Centre to Bin Rear	1,500 mm (4 ft. 11 in.)
P	Mid Axle Centre to Rear Axle Centre	1,670 mm (5 ft. 5 in.)
Q	Mid Axle Centre to Front Axle Centre	4,181 mm (13 ft. 8 in.)
R	Front Axle Centre to Machine Front	2,602 mm (8 ft. 6 in.)
S	Front Axle Centre to Artic Centre	1,362 mm (4 ft. 5 in.)
T	Approach Angle	25 °
U	Maximum Bin Tip Angle	70 °
V	Maximum Articulation Angle	45 °
W	Front Tie Down Height	1,075 mm (3 ft. 6 in.)
X	Machine Lifting Centres	9,477 mm (31 ft. 1 in.)
Y	Inner Turning Circle Radius - 23.5R25	4,110 mm (13 ft. 5 in.)
Z	Outer Turning Circle Radius - 23.5R25	8,000 mm (26 ft. 2 in.)

Grade Ability/Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line.
NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

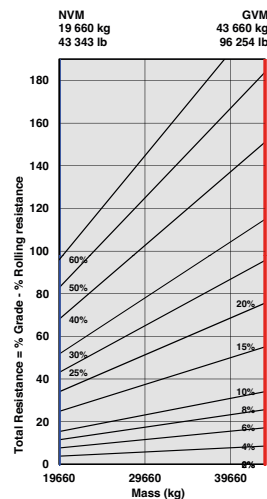


ADT, B25E 6X6 - Tractive Effort



Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight right across charts until line intersects the curve.
NOTE: 2% typical rolling resistance is already assumed in chart.
3. Read down from this point to determine maximum speed.



ADT, B25E 6X6 - Retardation

